

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) Publication number:

**0 486 158 A3**

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: **91309511.3**

(51) Int. Cl.<sup>5</sup>: **D06M 13/513**, D06M 13/292,  
D04H 1/74, //D06M101:18

(22) Date of filing: **16.10.91**

(30) Priority: **15.11.90 US 614650**

(43) Date of publication of application:  
**20.05.92 Bulletin 92/21**

(84) Designated Contracting States:  
**AT BE CH DE DK ES FR GB GR IT LI LU NL SE**

(88) Date of deferred publication of the search report:  
**08.07.92 Bulletin 92/28**

(71) Applicant: **HERCULES INCORPORATED**  
**Hercules Plaza**  
**Wilmington Delaware 19894-0001(US)**

(72) Inventor: **Schmalz, A Chandler**  
**2594 Harvest Drive**  
**Conyers, Georgia 30208(US)**

(74) Representative: **Brock, Peter William et al**  
**UROUHART-DYKES & LORD 91 Wimpole**  
**Street**  
**London W1M 8AH(GB)**

(54) **Cardable hydrophobic polyolefin fiber, material and method for preparation thereof.**

(57) An improved method for producing hydrophobic polyolefin-containing staple fiber for processing, with reduced waste and improved crimp by sequential treatment with two finish compositions comprising at least one neutralized phosphoric acid ester and at least one polysiloxane of defined classes and amounts.

**EP 0 486 158 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 91309511.3
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US - A - 4 938 832 (SCHMALZ) * Totality * -----	1-10	D 06 M 13/513 D 06 M 13/292 D 04 H 1/74 //D 06 M 101:18
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			D 06 M D 04 H
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
VIENNA	08-05-1992	BECK	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	